

ABSTRACT

2 A device for submerging scrap metal includes: (a) a drive source, (b) a drive shaft having
3 a first end and a second end, the first end being connected to the drive source, and (d) an impeller
4 connected to the second end of the drive shaft, the impeller preferably having two or more
5 outwardly-extending blades. Preferably, each of the blades has a portion that directs molten
6 metal at least partially downward. The impeller design leads to lower operating speeds, lower
7 vibration, longer component life and less maintenance. Additionally, the impeller preferably has
8 a connective portion. The connective portion is used to connect the impeller to the shaft and
9 preferably comprises a nonthreaded, tapered bore extending through the impeller.